



The Shishukunj

INTERNATIONAL SCHOOL

A PROJECT REPORT ON TELEPHONE DIRECTORY SYSTEM

**CLASS XII 'D'
SESSION 2018-19**

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CERTIFICATE

Jayvardhan Rathi of class XII D has carried out original and genuine work with full dedication and sincerity and it is bonafide work of the student in the computer lab during the academic year 2018 - 19 in accordance with the CBSE curriculum for class XII Computer Science .

**Mr Sanjay Vishwakarma
Internal Examiner**

School Stamp

**Principal
Dr. Lalita Singh**

ACKNOWLEDGEMENT

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HEADER FILES USED

→ FSTREAM.H

→ IOSTREAM.H

→ CONIO.H

→ STRING.H

→ STDIO.H

Program Code

```
#include <iostream.h>
#include <fstream.h>
#include <stdio.h>
#include <string.h>

class Telephone
{
    char f_name[20],l_name[20], phone_no[20], email[25];

public:

    void disp(); //function to display the data

    void get(); //function to input the data

    void input_call(); //function to call the input data function

    void display_call(); //function to call the display data function

    void search(); //function to search the data

    void del(); //function to delete the data

    void mod(); //function to modify the data

}; //object of class Telephone is created as 'c'

void Telephone::get() //function to input the data
{
    puts("\nEnter first name :");
    gets(f_name);

    puts("\nEnter last name :");
    gets(l_name);
```

```

puts("\n Enter phone number:");
gets(phone_no);

puts("\nEnter  email address:");
gets(email);

}
void Telephone::disp() //function to display the data
{
    puts("\n first name :");
    puts(f_name);

    puts("\n last name :");
    puts(l_name);

    puts("\n phone number:");
    puts(phone_no);

    puts("\n email address:");
    puts(email);
}
void Telephone::input_call()
{
    ofstream ofile;
    ofile.open("Tele", ios::app);
    get(); //here the data is input
    ofile.write((char*)&c, sizeof(c)); //the function now appends the data
    ofile.close();
}
void Telephone::display_call()
{
    ifstream ifile;
    ifile.open("Tele");
    ifile.seekg(0, ios::beg);
    ifile.read((char*)&c, sizeof(c));
    while(ifile)

```

```

{
    disp(); //here the data is displayed
    ifile.read ((char*)&c, sizeof(c));
}
ifile.close();
}
void Telephone::search() //function to search the data
{
    char m[20];
    ifstream ifile("Tele");
    puts("Enter name of Person which has to be searched");
    gets(m);
    ifile.seekg (0, ios::beg);
    ifile.read((char*)&c, sizeof(c));
    while(ifile)
    {
        if (strcmpi(m, f_name)==0)
            disp();
        ifile.read((char*)&c, sizeof(c));
    }
    ifile.close();
}
void Telephone::del()
{
    char b[20];
    ifstream ifile;
    ifile.open("Tele", ios::app);
    ofstream ofile;
    ofile.open("new", ios::app);
    puts("Enter the name of the Person whose records you want to delete");
    gets(b);
    ifile.seekg (0, ios::beg);
    ifile.read((char*)&c, sizeof(c));
    while(ifile)
    {
        if (strcmpi(b, f_name))
            ofile.write((char*)&c, sizeof(c));
    }
}

```



```

    ifile.read((char*)&c, sizeof(c));
}
ifile.close();
ofile.close();
remove ("Tele");
rename("new", "Tele");
}
void Telephone::mod()
{
    char d[20];
    int p;
    puts("\nEnter name of Person whose record you want to modify\n");
    gets(d);
    fstream f;
    f.open("Tele", ios::in | ios::out);
    f.seekg(0, ios::beg);
    f.read((char*)&c, sizeof(c));
    int a=f.tellg();
    while(! f.eof())
    {
        if (!strcmpi(d, f_name))
        {
            puts("\n Press 1 to change first name\n Press 2 to change last name\n Press 3
to change phone_no \n Press 4 to change email address");
            cin>>p;
            switch(p)
            {
                case 1:
                    gets(f_name);
                    break;
                case 2:
                    gets(l_name);
                    break;
                case 3:
                    gets(phone_no);
                    break;
                case 4:

```

```

        gets(email);
        break;
    }
    f.seekg(a-sizeof(c), ios::beg);
    f.write((char*)&c, sizeof(c));
}
f.read((char*)&c, sizeof(c));
a=f.tellg();
}
f.close();
}
void main ()
{
    int ch;
    char choice;
    do
    {
        cout<<"\t    Telephone Directory System";
        cout<<"\n *****";
        cout<<"\n\n * 1. View Telephone details          *";
        cout<<"\n\n * 2. Add new record                      *";
        cout<<"\n\n * 3. Search a Telephone record          *";
        cout<<"\n\n * 4. Delete a Telephone record          *";
        cout<<"\n\n * 5. Modify a Telephone record          *";
        cout<<"\n *****";
        cout<<"\n\n Enter your choice: ";
        cin>>ch;

        switch(ch)
        {
        case 1:

            c.display_call();
            break;
        case 2:

```

```
        c.input_call();

        break;
case 3:
    c.search();
    break;
case 4:
    c.del();
    break;
case 5:
    c.mod();
    break;
default:
    {
        cout<<"\n error!";
    }
    break;
}
cout<<"\n continue? (y/n)\n";
cin>>choice;
}while(choice=='y');
cout<<"\n Good bye";
}
```


3. Adding a New Record

```
J:\PROJECT_FINAL01.exe

Telephone Directory System
*****

* 1. View Telephone details *
* 2. Add new record *
* 3. Search a Telephone record *
* 4. Delete a Telephone record *
* 5. Modify a Telephone record *
*****

Enter your choice: 2

Enter first name :
Jay

Enter last name :
Rathi

Enter phone number:
9713921009

Enter email address:
rathi@gmail.com

continue? (y/n)
```

4. Viewing Records

```
J:\PROJECT_FINAL01.exe

Telephone Directory System
*****

* 1. View Telephone details *
* 2. Add new record *
* 3. Search a Telephone record *
* 4. Delete a Telephone record *
* 5. Modify a Telephone record *
*****

Enter your choice: 1

Name          Phone Number      Email
Jay Rathi     9713921009        rathi@gmail.com
Adnan Khambati 9826050365        ad@hotmail.com
Vicky Seth    9876040501        vicky@gmail.com
Radhika Soni  9876543210        rad@hotmail.com
Sanjay Tiwari  9845612354        sanju@gmail.com

continue? (y/n)
```

5. Searching for a record

```
J:\PROJECT_FINAL01.exe

Telephone Directory System
*****

* 1. Uiew Telephone details *
* 2. Add new record *
* 3. Search a Telephone record *
* 4. Delete a Telephone record *
* 5. Modify a Telephone record *
*****

Enter your choice: 3
Enter name of Person which has to be searched
Jay

Name                Phone Number    Email
Jay Rath            9713921009    rathi@gmail.com

continue? (y/n)
```

6. Deleting a Record

```
J:\PROJECT_FINAL01.exe

Telephone Directory System
*****

* 1. Uiew Telephone details *
* 2. Add new record *
* 3. Search a Telephone record *
* 4. Delete a Telephone record *
* 5. Modify a Telephone record *
*****

Enter your choice: 4
Enter the name of the Person whose records you want to delete
Adnan
Record Successfully deleted !
continue? (y/n)
_
```

7. Modifying a Record

```
J:\PROJECT_FINAL01.exe

Telephone Directory System
*****

* 1. View Telephone details *
* 2. Add new record *
* 3. Search a Telephone record *
* 4. Delete a Telephone record *
* 5. Modify a Telephone record *
*****

Enter your choice: 5

Enter name of Person whose record you want to modify

Sanjay

Press 1 to change first name
Press 2 to change last name
Press 3 to change phone_no
Press 4 to change email address
4
sanj@live.com
```